

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P951873

Luminaire Tested: **GALN-SB5D-927-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-927-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30580 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

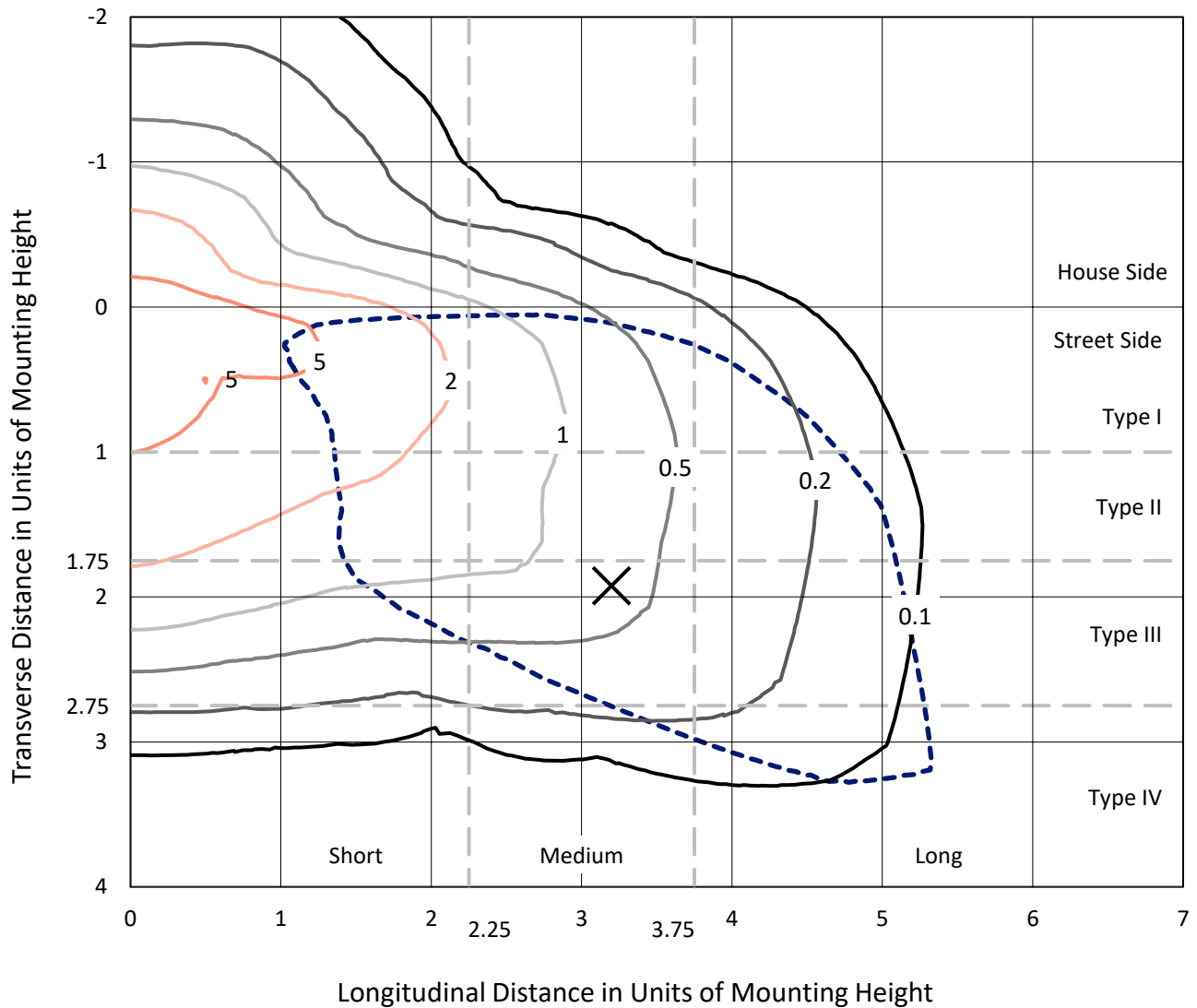
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

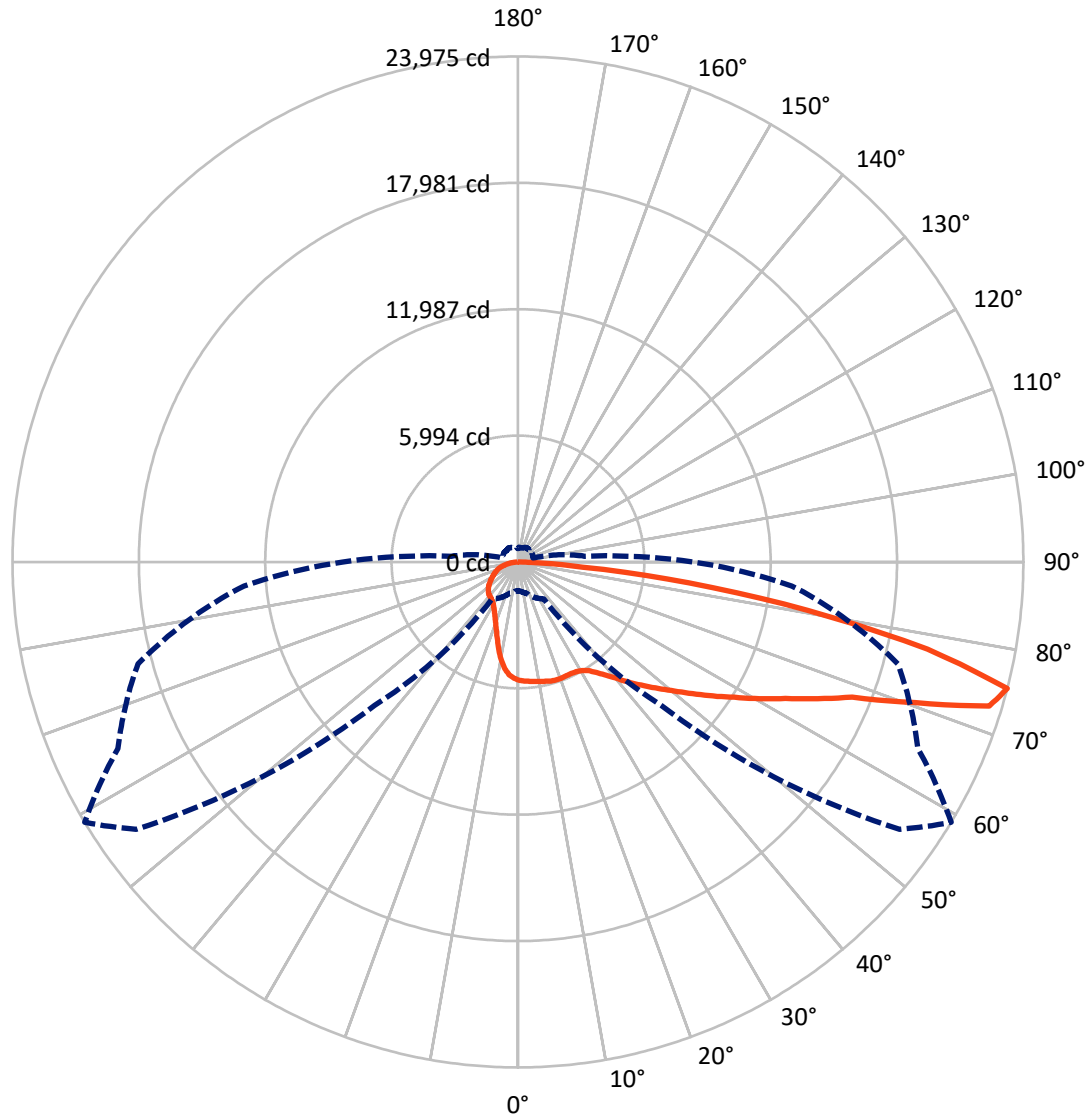
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5735.5	0.0	5735.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	24844.5	0.0	24844.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	30580.0	0.0	30580.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.3	1.6
10°-20°	1286.4	4.2
20°-30°	1954.0	6.4
30°-40°	2904.5	9.5
40°-50°	4319.6	14.1
50°-60°	5863.3	19.2
60°-70°	7158.1	23.4
70°-80°	5617.6	18.4
80°-90°	973.1	3.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	30580.0	100.0
0°-180°	30580.0	100.0



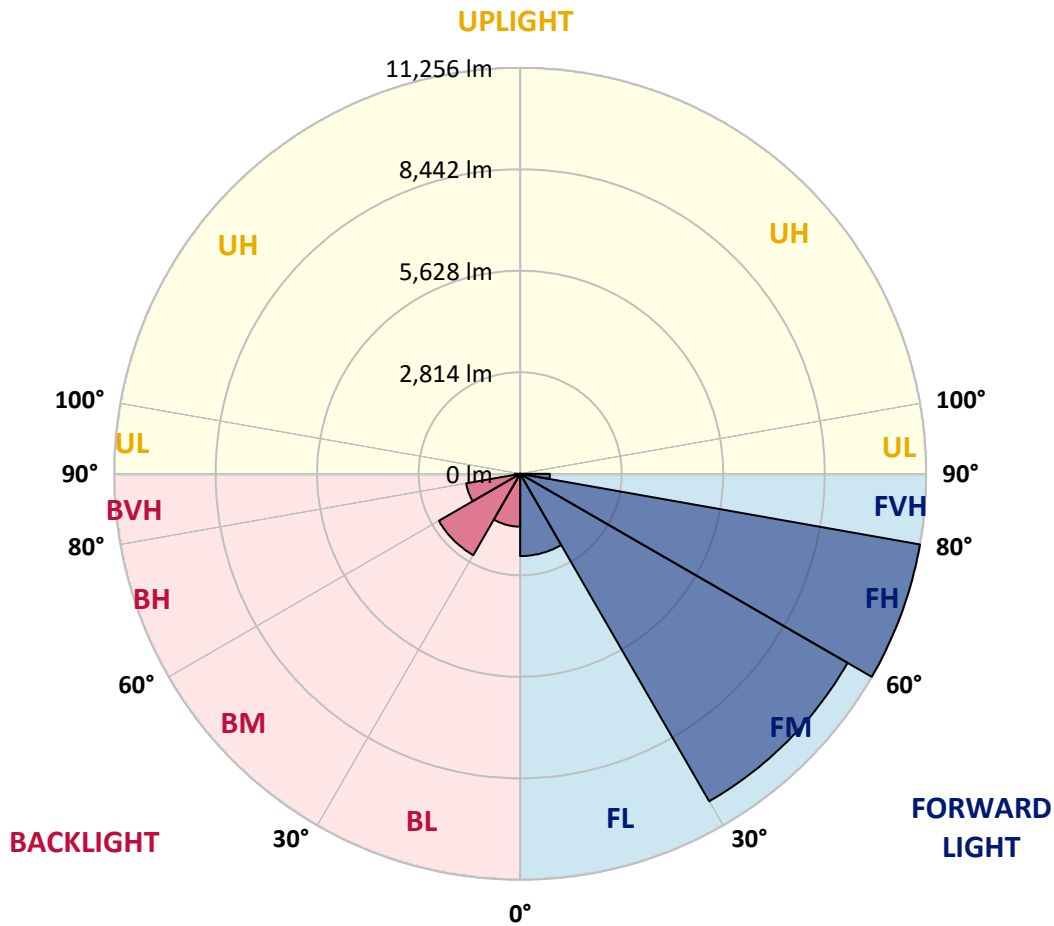
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2280.1	7.5			
FM (30°-60°)	10484.1	34.3			
FH (60°-80°)	11256.2	36.8			G4/12000
FVH (80°-90°)	824.1	2.7			G5
BL (0°-30°)	1463.6	4.8	B3/2500		
BM (30°-60°)	2603.3	8.5	B3/5000		
BH (60°-80°)	1519.6	5.0	B3/2500		G3/2500
BVH (80°-90°)	149.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	5612.9	5612.9	5612.9	5612.9	5612.9	5612.9	5612.9	5612.9	5612.9	5612.9
2.5°	5660.6	5640.9	5660.6	5652.4	5649.1	5642.5	5644.1	5655.7	5649.1	5657.3
5°	5622.8	5611.2	5631.0	5626.1	5647.4	5650.7	5672.1	5685.3	5693.5	5695.1
7.5°	5560.2	5548.7	5576.7	5599.7	5645.8	5659.0	5703.4	5724.8	5736.3	5756.0
10°	5331.6	5326.7	5395.7	5482.9	5591.5	5659.0	5726.4	5762.6	5780.7	5833.3
12.5°	4926.9	4933.5	5024.0	5191.8	5408.9	5626.1	5752.7	5805.4	5833.3	5899.1
15°	4540.3	4538.7	4637.4	4816.7	5121.0	5481.3	5765.9	5856.4	5904.1	6001.1
17.5°	4316.6	4310.0	4379.1	4515.6	4798.6	5259.2	5733.0	5884.3	5986.3	6108.0
20°	4275.5	4262.3	4298.5	4365.9	4566.6	5015.7	5647.4	5884.3	6052.1	6210.0
22.5°	4425.2	4403.8	4389.0	4380.8	4469.6	4815.0	5550.4	5864.6	6149.2	6356.5
25°	4726.2	4693.3	4617.6	4543.6	4517.3	4724.6	5464.8	5859.6	6293.9	6553.9
27.5°	5213.1	5172.0	5019.0	4841.4	4681.8	4770.6	5427.0	5889.3	6453.5	6762.8
30°	5816.9	5772.5	5580.0	5306.9	5020.7	4941.7	5474.7	5976.4	6657.5	7040.8
32.5°	6358.1	6308.7	6144.2	5866.2	5479.6	5237.8	5626.1	6142.6	6978.3	7427.4
35°	6838.4	6780.9	6632.8	6376.2	6042.2	5654.0	5899.1	6437.1	7434.0	8055.8
37.5°	7308.9	7241.5	7080.3	6808.8	6575.2	6208.4	6275.8	6815.4	8039.3	8819.1
40°	7835.3	7738.3	7542.5	7274.4	7047.4	6858.2	6771.0	7279.3	8654.6	9671.2
42.5°	8345.3	8253.2	8019.6	7790.9	7506.3	7452.1	7345.1	7822.2	9327.4	10607.2
45°	8894.8	8784.5	8501.6	8212.1	8032.8	7846.9	7901.1	8365.0	9987.1	11561.4
47.5°	9409.7	9286.3	8952.3	8629.9	8531.2	8179.2	8411.1	8962.2	10673.0	12528.7
50°	9687.7	9565.9	9287.9	8996.7	8919.4	8588.8	8963.8	9618.6	11391.9	13492.7
52.5°	9919.6	9788.0	9424.5	9263.2	9240.2	9034.6	9644.9	10368.7	12110.8	14344.8
55°	10166.4	10020.0	9556.1	9411.3	9516.6	9534.7	10452.6	11219.2	12870.8	15175.5
57.5°	10451.0	10265.1	9682.7	9536.3	9786.4	10120.3	11380.4	12100.9	13617.7	15945.4
60°	10719.1	10531.6	9926.2	9735.4	10077.5	10799.7	12444.8	13168.6	14463.2	16631.4
62.5°	10771.7	10617.1	10120.3	10118.7	10472.4	11592.6	13704.9	14246.1	15201.9	17309.2
65°	9860.4	9763.3	9468.9	10103.9	11038.2	12734.3	15108.1	15624.6	16141.2	17901.4
67.5°	7504.7	7517.9	7496.5	8722.0	10580.9	14374.4	17139.7	17100.2	17300.9	18566.0
70°	3431.6	3508.9	4012.3	6020.9	8476.9	14563.6	20498.9	19987.3	18756.8	19426.3
72.5°	1854.0	1913.2	2118.8	2916.7	5096.3	12948.1	23009.2	23372.8	20693.0	20005.4
75°	1360.5	1393.4	1536.5	1854.0	2140.2	9623.5	22109.4	23974.9	20934.8	18654.8
77.5°	1018.3	1033.1	1149.9	1469.0	1095.6	5073.3	17666.1	19855.7	17921.1	15326.9
80°	738.6	755.1	842.3	1102.2	768.2	1855.6	12130.6	13936.8	12273.7	9769.9
82.5°	510.0	516.5	554.4	750.1	536.3	720.5	6882.9	8172.6	6851.6	3428.3
85°	307.6	315.8	332.3	437.6	304.3	342.2	2970.9	3072.9	2048.1	819.2
87.5°	126.7	134.9	148.1	184.2	120.1	95.4	490.2	615.2	383.3	240.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5612.9	0°	5612.9	5612.9	5612.9	5612.9	5612.9	5612.9	5612.9	5612.9	5612.9	5612.9
5629.3	2.5°	5621.1	5609.6	5578.3	5535.6	5496.1	5446.7	5425.4	5407.3	5390.8	5359.6
5673.8	5°	5655.7	5624.4	5540.5	5431.9	5308.6	5173.7	5042.1	4951.6	4874.3	4816.7
5724.8	7.5°	5708.3	5649.1	5496.1	5274.0	4991.1	4701.5	4440.0	4254.1	4114.3	4063.3
5797.1	10°	5762.6	5691.9	5425.4	5033.8	4545.3	4099.5	3752.3	3561.5	3449.7	3413.5
5882.7	12.5°	5826.7	5723.1	5315.1	4699.9	4046.8	3558.2	3255.5	3143.7	3086.1	3066.4
5988.0	15°	5920.5	5749.4	5149.0	4282.1	3571.4	3163.4	2967.7	2890.3	2860.7	2859.1
6096.5	17.5°	5991.3	5754.4	4890.7	3834.6	3206.2	2924.9	2763.7	2734.1	2753.8	2783.4
6203.5	20°	6070.2	5709.9	4551.8	3426.6	2949.6	2716.0	2648.5	2668.3	2716.0	2758.7
6344.9	22.5°	6126.1	5629.3	4142.2	3109.1	2727.5	2595.9	2592.6	2633.7	2660.0	2681.4
6511.1	25°	6175.5	5492.8	3707.9	2842.6	2544.9	2523.5	2559.7	2546.5	2528.4	2546.5
6677.2	27.5°	6211.7	5277.3	3319.7	2609.0	2416.6	2474.1	2452.8	2423.2	2421.5	2431.4
6873.0	30°	6200.2	4989.4	3000.6	2387.0	2326.1	2382.0	2331.0	2326.1	2321.2	2326.1
7167.5	32.5°	6200.2	4662.1	2755.4	2234.0	2268.5	2247.1	2242.2	2230.7	2210.9	2209.3
7567.2	35°	6234.7	4334.7	2544.9	2151.7	2220.8	2169.8	2173.1	2145.1	2104.0	2084.3
8096.9	37.5°	6305.5	4071.5	2336.0	2112.2	2136.9	2135.3	2122.1	2074.4	2002.0	1939.5
8758.2	40°	6476.5	3994.2	2192.8	2094.1	2097.4	2117.2	2082.6	1990.5	1826.0	1724.0
9429.4	42.5°	6744.7	4124.1	2161.6	2049.7	2071.1	2090.9	2023.4	1809.5	1692.8	1631.9
10133.5	45°	7085.2	4351.1	2229.0	1985.6	2008.6	2043.1	1842.4	1740.5	1687.8	1689.5
10831.0	47.5°	7516.2	4589.7	2354.1	1929.6	1918.1	1937.9	1722.4	1659.8	1587.5	1605.6
11500.5	50°	8014.7	4831.5	2472.5	1854.0	1817.8	1753.6	1645.0	1585.8	1493.7	1450.9
12147.0	52.5°	8554.2	5065.1	2520.2	1761.8	1709.2	1635.2	1592.4	1520.0	1408.2	1337.4
12757.3	55°	9065.8	5277.3	2467.6	1651.6	1600.6	1543.1	1536.5	1492.1	1372.0	1273.3
13300.2	57.5°	9549.5	5455.0	2336.0	1539.8	1490.4	1455.9	1500.3	1478.9	1327.6	1200.9
13813.4	60°	9959.1	5576.7	2145.1	1426.3	1391.7	1373.6	1441.1	1434.5	1265.0	1123.6
14274.0	62.5°	10284.8	5624.4	1934.6	1317.7	1309.5	1276.6	1358.8	1358.8	1186.1	1047.9
14678.7	65°	10539.8	5578.3	1720.7	1210.8	1227.2	1177.9	1258.5	1248.6	1102.2	980.4
15144.3	67.5°	10765.2	5427.0	1483.8	1105.5	1143.3	1080.8	1153.2	1130.1	1010.1	913.0
15547.3	70°	10865.5	5075.0	1214.0	1000.2	1046.2	985.4	1047.9	1005.1	906.4	840.6
15104.8	72.5°	10059.4	4217.9	955.8	890.0	929.4	880.1	934.4	885.0	794.6	764.9
13043.6	75°	8322.3	3165.1	735.3	769.9	799.5	761.7	797.8	761.7	679.4	700.8
9635.0	77.5°	6043.9	2136.9	562.6	643.2	656.4	636.6	667.9	626.8	552.7	547.8
4801.9	80°	3005.5	1251.9	440.9	508.3	503.4	490.2	526.4	506.7	444.2	470.5
1296.3	82.5°	870.2	536.3	320.8	357.0	347.1	350.4	376.7	386.6	579.1	574.1
403.0	85°	273.1	210.6	192.5	199.1	189.2	194.1	222.1	440.9	408.0	238.5
125.0	87.5°	70.7	72.4	47.7	51.0	52.6	62.5	70.7	268.1	128.3	83.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
5612.9
5344.7
4769.0
3974.4
3357.5
3071.3
2865.7
2794.9
2773.5
2692.9
2558.0
2447.8
2344.2
2230.7
2104.0
1960.9
1737.2
1631.9
1697.7
1651.6
1462.4
1335.8
1273.3
1194.3
1118.6
1043.0
973.9
906.4
827.5
740.3
639.9
523.1
465.5
587.3
258.3
88.8
0.0

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